

CLAIMS

1. A spunbonded non-woven fabric made of fibers which comprise a polypropylene resin and have fiber finenesses in the range from 0.8 to 2.8 denier, wherein the said fabric has an average friction factor (MIU) of 0.1 to 0.3, a thickness uniformity of not higher than 0.8, a waterproof performance of at least 60 mm H₂O and a gas permeability of not higher than 480 ml/cm²/sec.

2. A spunbonded non-woven fabric made of fibers obtained by spinning a polypropylene resin composition comprising

99.995 - 99.7 % by weight of a polypropylene resin having a molecular weight distribution (Mw/Mn) of 1 to 3.5, determined by a gel permeation chromatography (GPC), and a melt flow rate of 0.01 to 300 g/10 min., determined according to ASTM D 1238 at 230 °C under a load of 2.16 kg, and

0.005 - 0.3 % by weight of a lubricant comprising 70 to 100 % by weight of a vinylidene fluoride/hexafluoropropylene copolymer and 0 to 30 % by weight of one or more inorganic compounds.

3. A spunbonded non-woven fabric as claimed in claim 1 or 2, wherein the polypropylene resin is that produced by a polymerization process using a single-site catalyst.

4. A spunbonded non-woven fabric made of fibers obtained by spinning a polypropylene resin composition comprising

99.995 - 99.7 % by weight of a polypropylene resin having a molecular weight distribution (Mw/Mn) of

1 to 3.5, determined by a gel permeation chromatography (GPC), and a melt flow rate of 0.01 to 300 g/10 min., determined according to ASTM D 1238 at 230 °C under a load of 2.16 kg, and

0.005 - 0.3 % by weight of a lubricant comprising 70 to 100 % by weight of a vinylidene fluoride/hexafluoropropylene copolymer and 0 to 30 % by weight of one or more inorganic compounds, the said inorganic compounds being selected from the group consisting of talc, calcium carbonate, silicon oxide and barium sulfate.

5. A spunbonded non-woven fabric made of fibers obtained by spinning a polypropylene resin composition comprising

99.995 - 99.7 % by weight of a polypropylene resin having a molecular weight distribution (Mw/Mn) of 1 to 3.5, determined by a gel permeation chromatography (GPC), and a melt flow rate of 0.01 to 300 g/10 min., determined according to ASTM D 1238 at 230 °C under a load of 2.16 kg, and

0.005 - 0.3 % by weight of a lubricant comprising 70 to 100 % by weight of a vinylidene fluoride/hexafluoropropylene copolymer and 0 to 20 % by weight of talc, 0 to 10 % by weight of calcium carbonate and 0 to 10 % by weight of silicon oxide.

6. A spunbonded non-woven fabric made of fibers obtained by spinning a polypropylene resin composition comprising

99.995 - 99.7 % by weight of a polypropylene resin having a molecular weight distribution (Mw/Mn) of

1 to 3.5, determined by a gel permeation chromatography (GPC), and a melt flow rate of 0.01 to 300 g/10 min., determined according to ASTM D 1238 at 230 °C under a load of 2.16 kg, and

0.005 - 0.3 % by weight of a lubricant comprising 89 to 91 % by weight of a vinylidene fluoride/hexafluoropropylene copolymer, 5 to 7 % by weight of talc, 1.5 to 2.5 % by weight of calcium carbonate and 1.5 to 2.5 % by weight of silicon oxide.

7. A non-woven fabric laminate comprising one or more webs of a spunbonded, non-woven fabric as claimed in any one of claims 1 to 6 and one or more webs of one or more melt-blown non-woven fabrics.

8. The non-woven fabric ^Alaminate as claimed in claim 7, wherein it has a three-layered structure of spunbonded non-woven fabric/melt-blown non-woven fabric/spunbonded non-woven fabric.

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